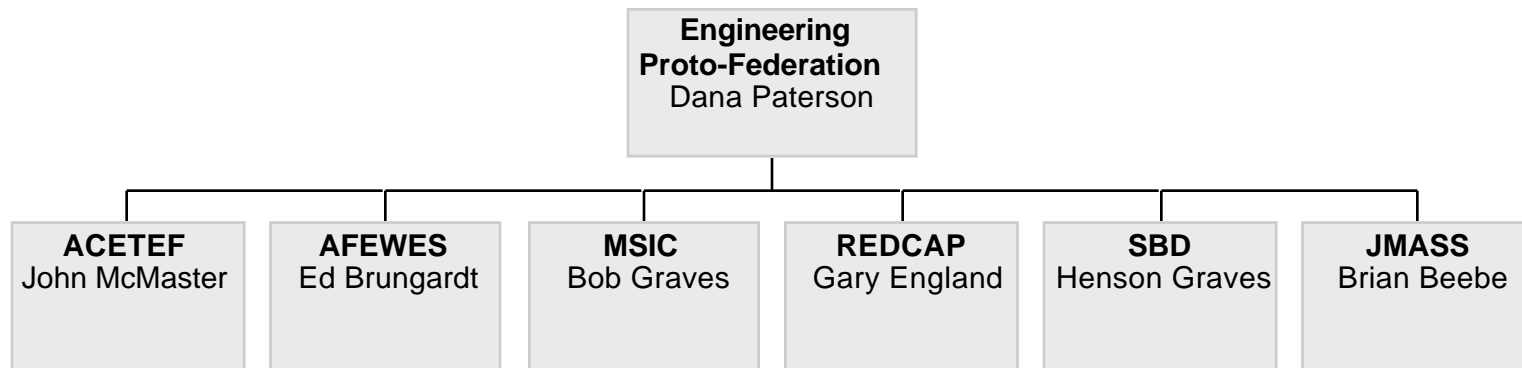


Engineering Protofederation Status

25 January 1996

**Tom Jasinski
REDCAP**

Engineering Federates and Points of Contact



Engineering Federates

Technical Points of Contact

Federate	Contact	Phone	FAX	E-Mail
Engineering Fed	Dana Paterson	(301) 342-6369	(301) 342-6381	patersd1%am6@mr.nawcad.navy.mil
ACETEF	John McMaster	(301) 342-6357	(301) 342-6381	johnm@acetef.nawcad.navy.mil
AFEWES	Ed Brungardt	(817) 763-4499	(817) 777-2115	egbrungardt@cliffy.lockheed.lfwc.com
J-MASS	Brian Beebe	(513) 429-6632	(513) 429-6505	brian_beebe@dayton.saic.com
MSIC	Bob Graves	(205) 922-9230	(205) 922-9219	graves@dynetics.com
REDCAP	Gary England	(716) 631-6870	(716) 631-4140	england@calspan.com
SBD	Henson Graves	(415) 354-5252	(415) 354-5235	graves@stc.lockheed.com

0.1 RTI Integration Status

	ACETEF	AFEWES	JMASS	MSIC	REDCAP	SBD
RTI Installed	●	●	●	●	●	●
RTI/Orbix Training	●	●	●	●	●	●
Test Federation	🍷	🍷	🍷	🍷	🍷	🍷
Integrated with Federate	🍷	○	○	○	○	○

Engineering Federation Status

- ACETEF-

Products:

Environment Generator

CGF(s)

Live Entity Surrogate

EW Environment

12/15/95	RTI installed
12/20/95	RTI running w/ Test Federate (TF) vs TF
12/30/95	RTI running w/ TF vs SWEG*
1/02/96	RTI running w/ SWEG* vs SWEG* vs TF
4/15/96	FOM compliance V0.2 RTI
5/05/96	FOM compliance V0.3 RTI

* (create, join, publish, subscribe, update, reflect)

Engineering Federation Status

- AFEWES-

Products:

MITL & HITL SAM systems

1/12/96	RTI received
1/22/96	Mods for one simulation completed
1/26/96	Orbix license
2/15/96	Test Federation completion
3/29/96	Mods for multiple simulations
4/15/96	FOM compliance V0.2 RTI
5/15/96	FOM compliance V0.3 RTI

Engineering Federation Status

-AFEWES-

- Modifications required for HLA/RTI
 - » Minor mods to SIMS interface to support SOM object/attributes
 - » Data packaging mods (presently DIS)
 - » Specific mods to distributed system to interface to RTI
- Extent of Changes
 - » Minor
- Other
 - » Middleware

Engineering Federation Status

- JMASS/IDAL-

Products:

Digital simulated SAM systems

EW Associate

12/22/95	RTI/Orbix installed
12/22/95	Test Federate running
1/16/96	FOM inputs complete
1/16/96	J-MASS test player running w/ RTI
2/16/96	Initial model integration w/ V0.1 RTI
4/15/96	FOM compliance V0.2 RTI
5/15/96	FOM compliance V0.3 RTI

Engineering Federation Status

-JMASS/IDAL-

- Modifications required for HLA/RTI
 - » Federation Management - Executive Controller
 - » Port objects/code generator for declaration mngt, object mngt, ownership mngt
 - » Executive and team synchronizer
- Extent of Changes
 - » 800-1000 ELOC
- Other
 - » SEE tools (e.g. Team Builder)

Engineering Federation Status

-MSIC-

Products:

SAM system digital simulations

C2 system

1/22/96	Orbix/RTI/Test Federation installed and tested
2/15/96	Build “0” Simulations integrated to RTI
4/15/96	FOM compliance V0.2 RTI
5/15/96	FOM compliance V0.3 RTI

Engineering Federation Status

-MSIC-

- Modifications required for HLA/RTI
 - » Modify time management system (similar to JMASS)
 - » Changes to support subscription -- generation of “pseudo” players
- Extent of Changes
 - » System specific - 1000+ ELOC
 - » Central/reused - 1000+ ELOC

Engineering Federation Status

-MSIC-

- Other

- » reusable code

- coordinate transforms
 - dead reckoning
 - etc.

Engineering Federation Status

- REDCAP-

Products:

MITL/HITL threat C2 simulation

12/22/95	RTI/Orbix installed
1/04/96	Sample Federate exercised
1/12/96	RTI running w/ Test Federate (TF)
1/19/96	RTI running w/ TF vs TF
4/15/96	FOM compliance V0.2 RTI
5/10/96	FOM compliance V0.3 RTI

Engineering Federation Status

-REDCAP-

- Modifications required for HLA/RTI
 - » Test conductor control and GUI (simulation management)
 - » Remote Interface software -- currently supports DIS
- Extent of Changes
 - » Changes are localized to above elements
- Other
 - » Middleware (transforms, etc.)

Engineering Federation Status

- SBD-

Products:

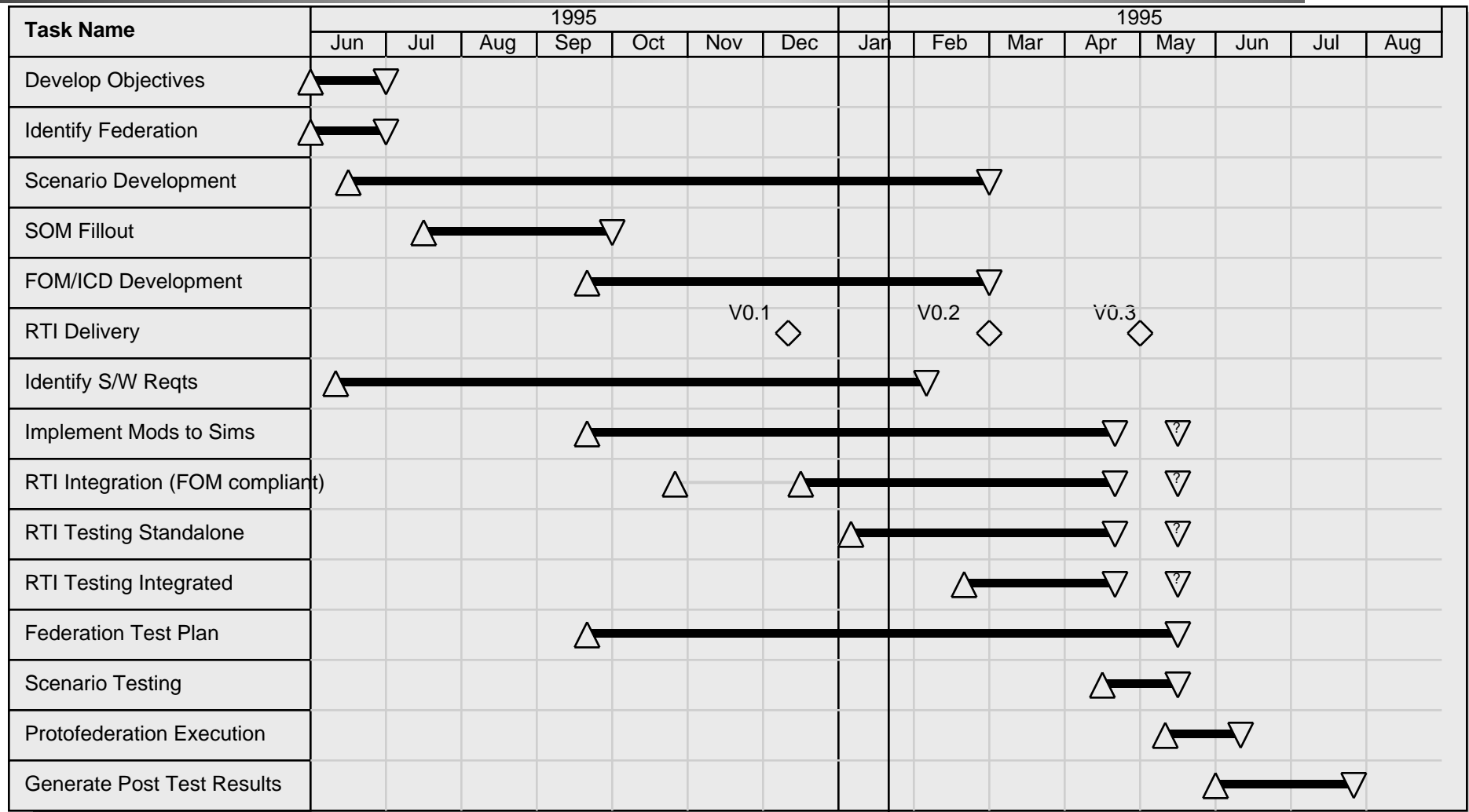
Ship simulation

1/02/96	RTI installed, running with test federate running
2/15/96	Initial model integration w/ V0.1 RTI
3/15/96	FOM compliance V0.2 RTI
5/15/96	FOM compliance V0.3 RTI

Engineering Federation Status

- Meeting held at AFEWES 1/16-1/18 addressing
 - » Communications Hardware
 - Standardized Equipment
 - “Hello World” test scheduling
 - » Test Plan
 - » FOM/ICD
 - Classification
 - » Scenario

Engineering Protofederation Schedule



Lessons Learned

Technical

- Expansion of the FOM to include ICD elements
- Utility of tool/template for the FOM development
- ORBIX licensing problems
- Need for a programming example
- DFOM requirement
- CORBA Update